

INPLACE MOISTURE-DENSITY DETERMINATION: CALIBRATED CYLINDER METHOD Fine-Grained Soils — Less than 5% + No. 4 Sieve

ocation					Site No					
Vatershe	d					Subwatershed				
Contract I	No		Contractor							
Tested by			Computed by							
Test No.	Date			tion of test			Borrow source, location, and depth	Material classification		
		Station	<u> </u>	offset	Elevation	1		Classification		
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				1				and the same of the same		
		Spec. requir	rements (%)	Test re	esults (%)		Wet d	ensity check		
Test No.	Date	Moisture range	Compac- tion	Moisture	Compac- tion	Curve No.	1-Point	Curve		
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Remarks_			L			I				
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	Vol Data unitation	Test No.				
	Volume Determination					
1.	Volume of cylinder (volume of hole)					
	Moisture Determination					
	Wolsture Determination	,				
Spe	edy moisture meter					
2.	Dial reading				<u> </u>	
3.	Moisture content (calibration curve)(%)					
San	nple tested using: quick dry alcohol oven	Container No.				
	<u> </u>					
4.	Weight of moist sample plus container					
5.	Weight of dry sample plus container					
6.	Weight of moisture = 4 - 5					
7.	Weight of container					
8.	Weight of dry sample = 5 - 7	·				
9.	Moisture content = (6 + 8) 100(%)			****		
10.	Correction for ignition(%)					
11.	Corrected moisture content = 9 - 10 (%)					
		:				
	Density Determination					
12.	Weight of moist sample plus cylinder					
	Weight of cylinder					
	Weight of moist sample = 12 - 13					
	Weight of dry sample = [4 + (100 + 11)] 100					
	Fill dry density = 15 + 1					
	Maximum dry density					
	Ratio ¹ = $(6 + 7)$ 100 (%)				_	

¹ Patio of fill dry density to maximum dry density.